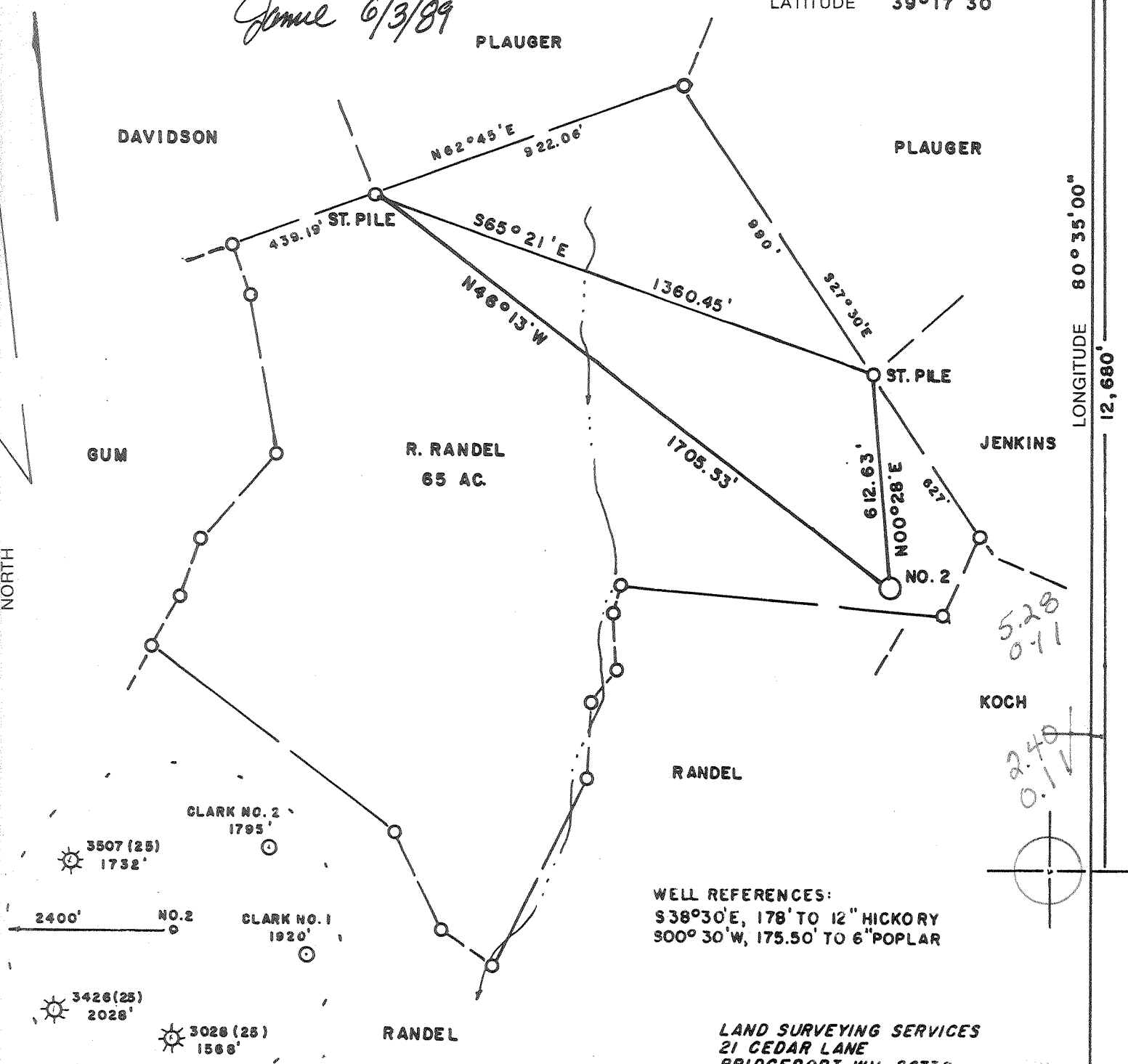


87B 12/10/86

Genie 6/3/89

LATITUDE 39°17'30"

600



LONGITUDE 80°55'08"

WELL REFERENCES:
 S38°30'E, 178' TO 12" HICKORY
 S00°30'W, 175.50' TO 6" POPLAR

LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 1100' S. OF LOCATION ELEV. - 1410'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) _____
 R.P.E. _____ L.L.S. 674
 STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE NOVEMBER 26, 19 86
 OPERATOR'S WELL NO. SMITH NO. 2
 API WELL NO.

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE DEEP ___ SHALLOW
 LOCATION: ELEVATION 1398' WATERSHED GREENBRIER CREEK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE SALEM 7.5 min. 596 022 4 Centerpoint SC
 SURFACE OWNER RIKK RANDEL ACREAGE 157.13
 OIL & GAS ROYALTY OWNER RIKK RANDEL, et. al. LEASE ACREAGE 67

COUNTY NAME

PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PERMIT

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5800'
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD
 ADDRESS P. O. DRAWER R 847 ADDRESS P. O. DRAWER R JANE LEW, WV 26378

JUN 12 1989

6-6 Salem (102)

Well Operator's Report of Well Work

Farm name: RANDEL, RIKK & NANCY L. Operator Well No.: 2-157-S

LOCATION: Elevation: 1398.00 Quadrangle: SALEM

District: GREENBRIER County: DODDRIDGE
Latitude: 12680 Feet South of 39 Deg. 17Min. 30 Sec.
Longitude 600 Feet West of 80 Deg. 35 Min. 0 Sec.

Company: STONEWALL GAS CO.
P. O. BOX 1575
RICHMOND, VA 23213-1575

Agent: JESSE SHELL

Inspector: MIKE UNDERWOOD
Permit Issued: 06/09/89
Well work Commenced: 06/06/90
Well work Completed: 06/11/90

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5900
Fresh water depths (ft) _____
81
Salt water depths (ft) _____
1875

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	232	232	125 SKS
8 5/8	1805	1805	385 SKS
4 1/2	5826	5826	240 SKS

OPEN FLOW DATA

Producing formation ALEXANDER Pay zone depth (ft) 5689, 5702-5712
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1704 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1800 psig (surface pressure) after 168 Hours

Second producing formation LEOPOULD/BENSON Pay zone depth (ft) 5562-5568, 5350-5354
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1704 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1800 psig (surface pressure) after 168 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

RECEIVED

Division of Energy

JUL 09 90

Permitting
Oil and Gas Section

For: STONEWALL GAS CO.

By: Ray M. Stewart PETROLEUM ENGINEER

Date: JULY 5, 1990

JUL 16 1990

STAGES	3	FRAC	WATER	DATE	06/19/90			
ZONES		PERFS		HOLES		BBL	BP	ISIP
ALEXANDER		5689, 5702-5712		20		700	2230	1710
LEOPOULD		5562-5568		18		700	3400	1740
BENSON		5350-5354		16		700	3000	1850

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
SUB	BROWN	SOFT	0	10	
FILL	BROWN	SOFT	10	20	
BROWN SAND	BROWN	SOFT	20	80	HOLE WET 81'
SAND	TAN	SOFT	80	120	1/4 " STREAM
RED ROCK	RED	HARD	120	140	
SAND	TAN	HARD	140	150	DAMP @ 1875
RED ROCK	RED	HARD	150	160	GAS CK 2586
SAND	GREY	SOFT	160	172	NO SHOW
RED ROCK	BROWN	SOFT	172	198	
SAND & SHALE	BROWN	SOFT	198	537	GAS CK 5230
COAL	GREY	SOFT	537	550	NO SHOW
SAND & SHALE	GRAY	HARD	550	780	
SAND, SHALE & RED ROCK	GREY	HARD	780	875	GAS CK 5450
SAND & SHALE	BROWN	HARD	875	1034	NO SHOW
SAND	BROWN	SOFT	1034	1070	
SAND & SHALE	GREY	SOFT	1070	1200	GAS CK 5702
SAND & RED ROCK	GREY	SOFT	1200	1295	NO SHOW
SAND & SHALE	GREY	HARD	1295	1635	
SAND	BROWN	HARD	1635	1697	GAS CK 5900
SAND & SHALE	GREY	SOFT	1697	2416	ODOR
BIG LIME	BROWN	SOFT	2416	2519	
INJUN SAND	GREY	SOFT	2519	2555	
SAND & SHALE	GREY	HARD	2555	3055	
SAND	BROWN	HARD	3055	3080	
SAND & SHALE	GREY	HARD	3080	3130	
SAND	BROWN	SOFT	3130	3270	
SAND & SHALE	BROWN	SOFT	3270	5206	
RILEY	GREY	SOFT	5206	5262	
SAND & SHALE	GREY	SOFT	5262	5338	
BENSON	GREY	SOFT	5338	5428	
SAND & SHALE	GREY	HARD	5428	5628	
ALEXANDER	GREY	HARD	5628	5727	
SAND & SHALE	GREY	HARD	5727	5900	
TD			5900		

1-568

9 0 JUL

AMERICAN OIL FIELD SERVICE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: ⁸⁴⁷ STONEWALL GAS COMPANY 47850, 4, 595
- 2) Operator's Well Number: SMITH-RANDEL #2 (157-S) 3) Elevation: 1398
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): ⁴³⁹ ALEXANDER
- 6) Proposed Total Depth: 5800 feet
- 7) Approximate fresh water strata depths: 75
- 8) Approximate salt water depths: 1280
- 9) Approximate coal seam depths: 920
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4	ERW	42#	243	243	38CSR18-11.3
Fresh Water						
Coal						
Intermediate	8 5/8	ERW	23#	1807	1807	38CSR18-11.3
Production	4 1/2	ERW	10.5	5800	5800	38CSR18-11.1
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

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MAY 24 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

6300

Fee(s) paid: Plat WW-9 WW-2B Bond Blanket sure Agent

Well Work Permit Plat Reclamation Fund Plat WPCP Plat

(Type)

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MAY 24 1989

1) Date: JANUARY 3, 1989
2) Operator's well number
SMITH-RANDEL #2 157-S
3) API Well No: 47 - 017 - 3725
State - County - Permit
(Formerly: Dod-3519)

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name RIKK & NANCY L. RANDEL
Address RT 1, BOX 328
SALEM, WV 26426

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector MIKE UNDERWOOD
Address RT 2, BOX 114
SALEM, WV 26426
Telephone (304)- 782-1043

5) (a) Coal Operator:
Name N/A
Address _____

(b) Coal Owner(s) with Declaration
Name WILLIS G. TETRICK, ET AL
Address BOX 267
CLARKSBURG, WV 26301

Name _____
Address _____

(c) Coal Lessee with Declaration
Name CONOCO, INC. 1007 MARKET ST.
Address WILMINGTON, DEL. 19898
CHEVRON COAL DEV. CO.,
PO BOX 7147, SAN FRANCISCO CA

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: 94120-7147

___ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties, by:

- ___ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- ___ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator STONEWALL GAS COMPANY
By: [Signature]
Its: PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378-0080
Telephone 304-884-7881

Subscribed and sworn before me this 3RD day of JANUARY, 1989

[Signature] Notary Public
My commission expires JANUARY 16, 1991